

# SIEMENS

## Data sheet for SINAMICS V20

Article No. : 6SL3210-5BE27-5UV0



Figure similar

Client order no. :  
Order no. :  
Offer no. :  
Remarks :

Item no. :  
Consignment no. :  
Project :

Rated data	
<b>Input</b>	
Number of phases	3 AC
Line voltage	380 ... 480 V -15 % +10 %
Line frequency	47 ... 63 Hz
<b>Output</b>	
Number of phases	3 AC
<b>Rated voltage</b>	<b>400V IEC</b> <b>480V NEC<sup>1)</sup></b>
Rated power (LO)	7.50 kW
Rated power (HO)	7.50 kW
Rated current (LO)	16.50 A
Rated current (HO)	16.50 A
Rated current (IN)	16.50 A
Pulse frequency	4.00 kHz
Output frequency	0 ... 550 Hz
<b>Overload capability</b>	
Low Overload (LO)	110 % rated output current for 60 s, cycle time 300 s
High Overload (HO)	150 % rated output current for 60 s, cycle time 300 s
General tech. specifications	
Power factor $\lambda$	0.72
Offset factor $\cos \varphi$	0.95
Efficiency $\eta$	0.98
Filter class (integrated)	Unfiltered
With integrated braking chopper	Yes
Communication	
Communication	USS, Modbus RTU
Inputs / outputs	
<b>Standard digital inputs</b>	
Number	4
<b>Digital outputs</b>	
Number as relay changeover contact	1
Number as transistor	1
<b>Analog inputs</b>	
Number	2 (Can be used as additional digital input)
<b>Analog outputs</b>	
Number	1

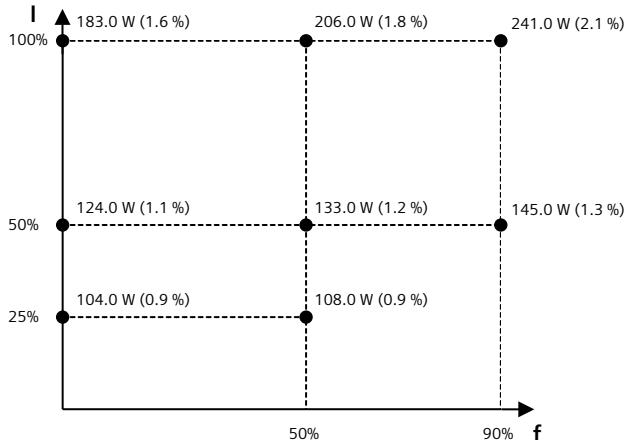
Ambient conditions	
Cooling	External fan
Installation altitude	1,000 m (3,280.84 ft)
<b>Ambient temperature</b>	
Operation <sup>2)</sup>	-10 ... 60 °C (14 ... 140 °F)
Storage	-40 ... 70 °C (-40 ... 158 °F)
<b>Relative humidity</b>	
Max. operation	95 %
Connections	
<b>Max. motor cable length</b>	
Shielded	25 m (82.02 ft)
Unshielded	50 m (164.04 ft)
Mechanical data	
Mounting position	Through-hole mounting / wall mounting / side-by-side mounting
Degree of protection	IP20 / UL open type
Frame size	FSD
Net weight	3.70 kg (8.16 lb)
<b>Dimensions</b>	
Width	240.0 mm (9.45 in)
Height	206.5 mm (8.13 in)
Depth	172.5 mm (6.79 in)
Standards	
Compliance with standards	CE, cULus, C-Tick (RCM), KC
CE marking	EN 61800-5-1 /EN 60204-1 and EN 61800-3

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### Converter losses to IEC61800-9-2\*

Efficiency class IE2

Comparison with the reference converter (90% / 100%) 36.1 %



The percentage values show the losses in relation to the rated apparent power of the converter.

The diagram shows the losses for the points (as per standard IEC61800-9-2) of the relative torque generating current ( $I$ ) over the relative motor stator frequency ( $f$ ). The values are valid for the basic version of the converter without options/components.

\*calculated values

<sup>1)</sup> The output current and HP ratings are valid for the voltage range 440V-480V

<sup>2)</sup> Please observe derating at temperatures of 40 °C or above